



For contract construction projects

ROAD CONSTRUCTION AHEAD

W20-1(0)-48

For maintenance and utility projects

ROAD WORK AHEAD

W21-4(0)-48

WORKERS

W21-1a(0)-48 OR

WORKERS

W21-1110(0)-48

### TYPICAL APPLICATIONS

Utility operations  
Culvert extensions  
Side slope changes  
Guardrail installation and maintenance  
Delineator installation  
Landscaping operations  
Shoulder repair  
Sign installation and maintenance

### SYMBOLS

Work area

Sign

Cone, drum or barricade

### GENERAL NOTES

This Standard is used where at all time, any vehicles, equipment, worker or their activities will encroach in the area from 4.5 m (15') to the edge of pavement, except where activities will result in a dropoff greater than 75 mm (3") within 600 mm (24") of pavement.

If the operation is 4.5 m (15') or more off the pavement edge, no signing or cones will be required, unless two or more vehicles cross the 4.5 m (15') clear zone in one hour.

\* When working within 600 mm (24") of the pavement edge, cones, drums or barricades shall be placed at 8 m (25') centers for  $L/3$  distance, 15 m (50') centers through remainder of work area.

Shoulder tapers should have a minimum length of  $L/3$ .

Where L is:

SPEED LIMIT	FORMULAS
70 km/h (40 mph) or less:	Metric $L = \frac{WS^2}{150}$ (English) $L = \frac{WS^2}{60}$
80 km/h (45 mph) or greater:	$L = 0.65(W)(S)$ $L = (W)(S)$

W = Width of offset in meters (feet).

S = Normal posted speed km/h (mph).

All dimensions are in millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 1998

ENGINEER OF OPERATIONS

APPROVED January 1, 1998

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-98	Rev. 1st GEN. NOTE.
	Rev. (24") to (24") in 3rd GEN. NOTE.
1-1-97	Renum. Standard 2302-9.

OFF-RD OPERATIONS 2L, 2W  
4.5 m (15') TO PAVEMENT EDGE  
FOR SPEEDS  $\geq$  45 MPH

STANDARD 701006-01